## IN THE SPECIFICATION

**Please replace the paragraph beginning on Page 4, line 19, with the following amended paragraph:**

According to another exemplary embodiment of the present invention, the rearranging of the acquired CT data is performed by using John's equation. According to another exemplary embodiment of the present invention, a very simple linear equation is provided, which fulfills the data acquisition of a helical trajectory in the reconstruction volume, allowing for a fast and accurate and quasi-exact reconstruction of the computed tomography data.

**Please replace the paragraph beginning on Page 14, line 14, with the following amended paragraph:**

Fig. 6 shows a schematic drawing of an exemplary embodiment of a multi-line CSCT scanner. This scanner is provided with a detector 48, comprising a plurality of lines of energy resolving detector elements, which may be the same as the ones described with reference to Fig. 1. The source of radiation 49 is provided with collimator means, such that it generates a fan-beam of x-rays. The arrangement of the detector 48 and the source of radiation 49 is such that the detector 48 is focus centered. The view depicted in

Fig. 6 is parallel to the scanned plane or slice plane in order to further clarify the scanning process out of the x-y plane, i.e. the rotation plane of the source of radiation 49 and the detector 48. As may be taken from Fig. 6, a distance between the source of radiation 49 and the detector 48 is indicated as "SD"; a distance between the source 49 and the center of rotation 47 is indicated by S, a distance between the scatter center and the detector 48 is indicated by d, a distance between a detector element receiving radiation and the scanned plane or sliced plane is given by a and h indicates a height of the detector 48.